

No.

8100086



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Royal Sluis, B. V.

Whereas, THERE HAS BEEN PRESENTED TO THE
Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF *eighteen* YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT, 45 Stat. 1212, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

GARDEN BEAN

'Flamata'



In Testimony Whereof, I have hereunto set
my hand and caused the seal of the Plant
Variety Protection Office to be affixed
at the City of Washington
this 19th day of August in
the year of our Lord one thousand nine
hundred and eighty-two.

Attest:

Kenneth H. Evans
Acting
Commissioner
Plant Variety Protection Office
Grain Division
Agricultural Marketing Service

John R. Block
Secretary of Agriculture

ROYAL SLUIS

DWARF FLAGEOLET BEAN Flamata
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Exhibit A Pedigree

Flamata is derived from a Vernel type of parentline and an own parentline with finer grading, better seed quality and sturdier planttype.

Line selection has been carried out for several years.

Flamata appears to be stable and uniform through several generations of selfing and during the seed increase program.

"There are no variants." per letter of 4/27/81. CUB 7/23/81.

Exhibit B Novelty Statement

Flamata is most similar to Chevrier vert 90 jours. It differs from Chevrier vert 90 jours in having a finer grading (Chevrier vert 90 jours 9m/100 seed 28; Flamata

9m/100 seed 26), a sturdier planttype and in maturing one day longer. *set 810406*

Flamata is resistant to anthracnose races α , β , and δ whereas 'Chevrier vert 90 jours' is susceptible. CUB 7/23/81. per letter 4/27/81

Exhibit D Additional Description

Flamata is a Flageolet bean. Flageolet beans are, like peas, consumed as shelled beans in an immature state.

Dry matter content of the beans at harvesting stage is between 40 and 50%.

Flamata is dark green, flat podded with string. It produces 6-7 middle green beans per pod with a fine grading (9m/100 seeds ²⁶20). *set 810406*

Flamata is resistant to Anthracnose race α , β , δ and Common Bean Mosaic Virus race N.Y. 15, N.L. 1 type strain, N.L. 4 Mexican strain and Florida strain.



UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
LIVESTOCK, POULTRY, GRAIN & SEED DIVISION

FORM APPROVED
OMB NO. 40-R3822

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

INSTRUCTIONS: See Reverse.

No certificate for plant variety protection may be issued unless a completed application form has been received (5 U.S.C. 553).

1a. TEMPORARY DESIGNATION OF VARIETY Flamata		1b. VARIETY NAME Flamata		FOR OFFICIAL USE ONLY PV NUMBER 8100086	
2. KIND NAME (Garden) Dwarf Flageolet Bean		3. GENUS AND SPECIES NAME Phaseolus vulgaris		FILING DATE 4/1/81	TIME 11:30 A.M. P.M.
4. FAMILY NAME (BOTANICAL) Leguminosae		5. DATE OF DETERMINATION October 1977		FEE RECEIVED \$ 500.00 \$ 250.00	DATE 4/1/81 7/29/82
6. NAME OF APPLICANT(S) ROYAL SLUIS, Kon. Zaaizaadbedrijven Gebr. Sluis B.V.		7. ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) P.O. Box 22 1600 AA Enkhuizen Holland		8. TELEPHONE AREA CODE AND NUMBER 02280-2741	
9. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: (Corporation, partnership, association, etc.) association CB-5/4/82			10. IF INCORPORATED, GIVE STATE AND DATE OF INCORPORATION — CB		11. DATE OF INCORPORATION — CB
12. NAME AND MAILING ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS: J.G. Timmerman ROYAL SLUIS P.O. Box 22 - 1600 AA Enkhuizen (Holland)					

13. CHECK BOX BELOW FOR EACH ATTACHMENT SUBMITTED:

- ☒ 13A. Exhibit A, Origin and Breeding History of the Variety (See Section 52 of the Plant Variety Protection Act.)
- ☒ 13B. Exhibit B, Novelty Statement.
- ☒ 13C. Exhibit C, Objective Description of the Variety (Request form from Plant Variety Protection Office.)
- ☒ 13D. Exhibit D, Additional Description of the Variety.

14a. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED? (See Section 83(a). (If "Yes," answer 14B and 14C below.) ☐ YES ☒ NO

14b. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? ☐ YES ☒ NO **CB 7/23/81 per letter 4/27/81**

14c. IF "YES," TO 14B, HOW MANY GENERATIONS OF PRODUCTION BEYOND BREEDER SEED? ☐ FOUNDATION ☐ REGISTERED ☐ CERTIFIED

15a. DID THE APPLICANT(S) FILE FOR PROTECTION OF THIS VARIETY IN OTHER COUNTRIES? ☒ YES ☐ NO (If "Yes," give name of countries and dates.)

**France - December 13, 1979
Holland - December 22, 1979**

15b. HAVE RIGHTS BEEN GRANTED THIS VARIETY IN OTHER COUNTRIES? ☒ YES ☐ NO (If "Yes," give name of countries and dates.)

Holland - April 21, 1980

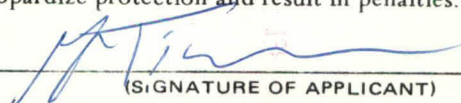
16. DOES THE APPLICANT(S) AGREE TO THE PUBLICATION OF HIS/HER (THEIR) NAME(S) AND ADDRESS IN THE OFFICIAL JOURNAL? ☒ YES ☐ NO

17. The applicant(s) declare(s) that a viable sample of basic seed of this variety will be furnished with the application and will be replenished upon request in accordance with such regulations as may be applicable.

The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Act.

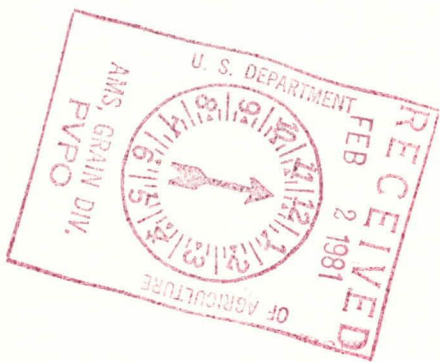
Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.

December 16, 1980
(DATE)


(SIGNATURE OF APPLICANT)
J.G. Timmerman

(DATE)

(SIGNATURE OF APPLICANT)



RECEIVED
FEB 2 1981
U. S. DEPARTMENT OF AGRICULTURE
AMS, GRAIN DIV.
PVPO

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
LIVESTOCK, POULTRY, GRAIN & SEED DIVISION
BELTSVILLE, MARYLAND 20705

EXHIBIT C
(Bean)

OBJECTIVE DESCRIPTION OF VARIETY
BEAN (*Phaseolus vulgaris* L.)

NAME OF APPLICANT(S) ROYAL SLUIS, Kon. Zaaizaadbedr. Gebroeders Sluis B.V.	FOR OFFICIAL USE ONLY
	PVPO NUMBER 8100086
ADDRESS (Street and No. or R.F.D. No., City, State, and Zip Code) P.O. Box 22 1600 AA Enkhuizen Holland	VARIETY NAME OR TEMPORARY DESIGNATION Flamata

Place numbers in the boxes (e.g.) for the characters that best describe this variety. Measured data should be for SPACED PLANTS. Ranges may also be given. Royal Horticultural Society or any recognized color standard may be used to determine plant colors; designate system used Royal Hort. Society Colour Chart. The location of test area is Enkhuizen Holland. Please answer questions appropriate for your variety if the information is available.

1. TYPE:

 1 = Field (dry-edible)

2 = Garden

2. MARKET MATURITY:

 Days to edible pods

CHS 7/23/87
per letter 4/27/81

 Days to green shells

 Days to dry seeds

 Heat units to edible pods

 Heat units to green shells

 Heat units to dry seeds

 No. days earlier than

..... Same as ..

 No. days later than

1 = Tendercrop
3 = Kinghorn Wax
5 = Michelite 62
7 = Bush Blue Lake 290

2 = Kentucky Wonder
4 = White Kidney
6 = Dwarf Horticultural
8 = Other (specify below)
Chevrier vert

90 jours

3. PLANT:

 1 = Determinate 2 = Indeterminate

 cm height

 cm shorter than

Same as ..

 cm taller than

 cm spread

 cm narrower than

width same as ...

 cm wider than

 Main stalk: 1 = brittle 2 = wirey

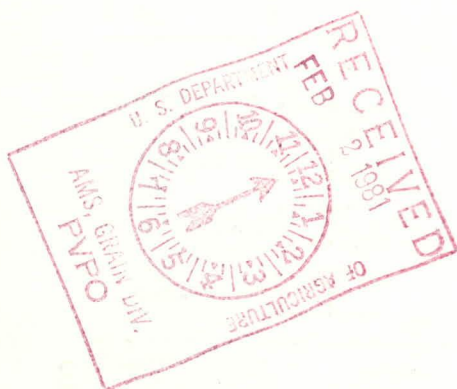
comparison variety from above

comparison
variety
from
above

 Number primary branches near base

 Branching habit:
1 = compact 2 = open

 1 = stout 2 = thin



3. PLANT: (Cont'd)

☐ 3 Pod position: 1 = low 2 = high 3 = scattered

☐ 4 Bush form (illustrated below):



1 = spherical bush form



2 = stem bush form



3 = wide bush form



4 = high bush form

5 = other (specify) _____

4. LEAVES:

☐ 1 1 = smooth 2 = wrinkled

☐ 1 1 = dull 2 = glossy

☐ 2 Size: 1 = small (Earliwax) 2 = medium 3 = large (Tendercrop)

☐ 3 Color: 1 = light green (as light or lighter than Bountiful) 2 = medium green
3 = dark green (as dark or darker than Bush Blue Lake 290)

5. FLOWERS:

☐ 1 Color: 1 = white 2 = cream 3 = pink 4 = lilac 5 = purple 6 = Other (specify) _____

☐ Days to 50% bloom

6. FRESH PODS: (Edible maturity, average for 20 pods)

☐ 3 Exterior color: 1 = light green (as light or lighter than Bountiful)
2 = medium green
3 = dark green (as dark or darker than Bush Blue Lake 290)
4 = light yellow (Brittlewax)
5 = golden yellow (Cherokee Wax)
6 = green-red variegated (Horticultural)
7 = other (specify) _____

% Sieve size distribution at optimum maturity for non-flat pods

Note:

1 = 4.76 mm to 5.76 mm

4 = 8.34 mm to 9.53 mm

2 = 5.76 mm to 7.34 mm

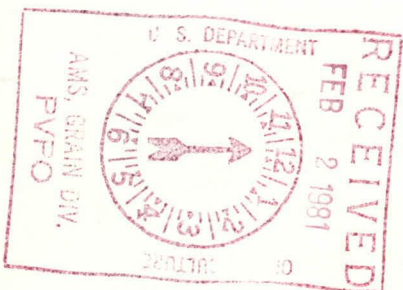
5 = 9.53 mm to 10.72 mm

3 = 7.34 mm to 8.34 mm

6 = 10.72 mm or larger

1	2	3	4	5	6
Flamata is a Flageolet Bean					

3 sieve	<input type="checkbox"/> 1 <input type="checkbox"/> 2	cm length	<input type="checkbox"/> 1 <input type="checkbox"/> 0	mm width	<input type="checkbox"/> <input type="checkbox"/> mm thickness
4 sieve	<input type="checkbox"/> <input type="checkbox"/>	cm length	<input type="checkbox"/> <input type="checkbox"/>	mm width	<input type="checkbox"/> <input type="checkbox"/> mm thickness
5 sieve	<input type="checkbox"/> <input type="checkbox"/>	cm length	<input type="checkbox"/> <input type="checkbox"/>	mm width	<input type="checkbox"/> <input type="checkbox"/> mm thickness
6 sieve	<input type="checkbox"/> <input type="checkbox"/>	cm length	<input type="checkbox"/> <input type="checkbox"/>	mm width	<input type="checkbox"/> <input type="checkbox"/> mm thickness



6. FRESH PODS: (Cont'd)

1 Cross section pod shape: 1 = flat 2 = oval 3 = round 4 = heart

2 Creaseback: 1 = present 2 = absent

1 Pubescence: 1 = none 2 = sparse 3 = considerable

2 Spur: 1 = straight 2 = slightly curved 3 = curved

2 Constrictions: 1 = none 2 = slight 3 = deep

3 Pod flesh: 1 = light 2 = medium 3 = dark

20 mm spur length

3 Fiber: 1 = none 2 = sparse 3 = considerable

7 Number of seeds per pod

1 Surface: 1 = smooth 2 = rough

1 2 Suture string: 1 = present 2 = absent

3 Seed development (Snap Bean): 1 = slow 2 = medium 3 = fast

1 Machine harvest: 1 = adapted 2 = not adapted

0 Pod flavor: (1) Standard (Tendercrop)
(2) Mild Blue Lake (BBL 274)
(3) Strong Blue Lake (Pole FM1)
(4) Mild Romano (Roma)
(5) Strong Romano (Pole Romano)
(6) Other (specify) _____

7. SEED COAT COLOR:

1 1 = Monochrome 2 = Polychrome 1 1 = shiny 2 = dull

11 Primary color: 1 = white 2 = yellow 3 = buff 4 = tan

11 Secondary color: 5 = brown 6 = pink 7 = red 8 = purple
9 = blue 10 = black 11 = other (specify) middle green

1 Color Pattern: 1 = none 2 = splashed 3 = mottled 4 = striped 5 = flecked 6 = dotted

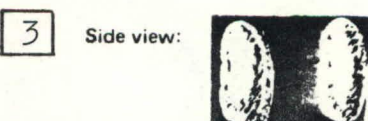
0 Secondary color location: 1 = hilar ring 2 = ventral surface
3 = sides 4 = dorsal surface
5 = not restricted to any area 6 = combination of location (specify below)

1 Hilar ring on colored seeds: 1 = absent 2 = narrow 3 = butterfly shaped

8. SEED SHAPE AND SIZE:

2 Hilum view: 1 = elliptical 2 = oval
3 = round

2 Cross section: 1 = elliptical 2 = oval 3 = cordate
4 = round



1 = oval to oblong



2 = round



3 = reniform

8. SEED SHAPE AND SIZE: (Cont'd)

☐ 2 1 = truncate ends 2 = rounded ends

☐ 2 ☐ 6 gm/100 seed

☐ 0 ☐ 2 gm/100 seed lighter than ☐ 8

 gm/100 seed same as ☐

comparison variety from page one

☐ gm/100 seed heavier than ☐

9. ANTHOCYANIN: (1 = absent 2 = present)

☐ 1 Flowers

☐ 1 Stems

☐ 1 Pods

☐ 1 Seeds

☐ 1 Leaves

10. DISEASE RESISTANCE (0 = not tested 1 = susceptible 2 = resistant):

☐ 2 Anthracnose (specify race below)
race α , β and δ (Alpha, Beta and Delta)
☐ 0 Rust (specify race below)

☐ 0 Powdery mildew

☐ 0 Fusarium root rot

☐ 0 Pythium root rot

☐ 0 Rhizoctonia root rot

☐ 0 Pythium wilt

☐ 0 Angular leaf spot

☐ 0 Bacterial wilt

☐ 1 Halo blight (specify race below)

☐ 0 Fuscous blight

☐ 0 Red node virus

☐ 0 Pod mottle virus

☐ 2 Bean common mosaic virus (specify strain below)
N.Y. 15
☒ 2 Mosaic mottle

☐ 1 Black root

☐ 0 Bean yellow mosaic virus

☐ 0 Curly top

☐ 0 Other (specify below)

 N.L. 1 type str
 N.L. Mexican str
 Florida strain

 CMS
 7/23/81
 per letter 4/27/81

11. INSECT RESISTANCE: (0 = not tested 1 = susceptible 2 = resistant)

☐ 0 Aphids

☐ 0 Leaf hopper

☐ 0 Lygus

☐ 0 Pod borer

☐ 0 Root knot nematode

☐ 0 Seed corn maggot

☐ 0 Thrips

☐ 0 Weavils

☐ Other (specify below)

12. PHYSIOLOGICAL RESISTANCE: (0 = not tested 1 = susceptible 2 = resistant)

☐ 2 Heat

☐ 1 Cold

☐ 2 Drought

☐ 0 Air pollution

13. COMMENTS:

